Design Review Action Items

Item Number:	Date:	
Meeting:		
Originator:		
Organization:		
Short Title:		
Action to be a	ecomplished:	
A 1 4		
Assigned to:		
Organization:		
Date to be Completed:		
Div Head/		
Grp Lead Concurrance:		
Action taken:	(use more paper if appropriate)	
A		
Assignee Signature:		
Reviewed:	Reviewed:	
Approved:	Date:	
Closed:	Date:	
CC		
:		

Preliminary Design Requirements Review Checklist

The following items should be addressed, to the extent possible, during the Preliminary Design Requirements Review (PDRR). The objective is to ensure that the development requirements are defined and to adequately represent the requirements to begin the preliminary design.

Subsystem block and functional diagrams
Physics parameter analyses and simulation data
Physics, engineering, and construction requirements allocation
Risk and abatement strategy for cost, schedule, and technical performance risks
Draft Software Development Plan
Reliability, maintainability, availability requirements
Interface studies
Environmental, Health, and Safety requirements
Trade Studies
Quality Control approach
High-level software requirements
Test method(s)
Computer system configuration/architecture
Schedules
Problems and concerns.

Preliminary Design Review Checklist

The following items should be addressed during the Preliminary Design Review (PDR): Subsystem block and functional diagrams Equipment layouts and preliminary drawings Environmental controls and thermal design aspects Power distribution and grounding Electromagnetic compatibility considerations Instrumentation, control, and diagnostic design approach Producibility and manufacturing considerations Preliminary parts lists Support system requirements and design approach Preliminary Development Specifications Physics parameter modeling, test, and simulation data Software Development Plan Software requirements specifications (Preliminary Design) Risk and abatement strategy for cost, schedule, and technical performance risks Draft interface control documents Design standardization and logistic considerations Trade and design studies Preliminary reliability, maintainability, and availability analyses Transportability, packaging, and handling considerations (including electrostatic discharge protection) Environmental, Health, and Safety analyses (specifically a Preliminary Safety Analysis Report) **Quality Control Planning** Test methodology Schedules Problems and Concerns.

Critical Design Review Checklist

The following items should be addressed, to the extent possible, during the Critical Design Review (CDR). Review of the detailed design drawing package is essential.

Subsystem block and functional diagrams	
Drawing package (assembly drawings and majority of remaining drawings)	
Final parts lists	
Final development specifications	
Draft product specifications	
Final interface control documents	
Design analysis and engineering test data	
Detailed software design, database design, interface design, firmware support, and compute resources integrated support documents	
Logistic support considerations:	
 □ Transportability, packaging, and handling □ Standardization □ Support equipment requirements □ Spares requirements □ Calibration requirements 	
Risk: cost, schedule, and technical	
Plans for acquisition of parts, components, and materials needed for fabrication	
Production plans	
Design reliability and maintainability	
System safety	
Quality control plans	
Test plans (hardware, software, other)	
Schedules	
Problems and concerns	

Acceptance Test Plan Review Checklist

The following items should be addressed during the Acceptance Test Plan Review (ATPR). Assurance that the acceptance tests are properly planned and adequate test resources have been allocated are the main points to be addressed.

Acceptance Test Plan overview and status
Tests planned or data analyzed to verify performance (including reliability, maintainability, and availability)
Tests planned in conjunction with post-test analyses confirm that environmental health, and safety requirements are being met. (A final Safety Analysis Report is due.)
Proper evaluation resources allocated
ATP compatible with commissioning plans
Schedule
Problems and concerns.